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No 2/3, 1941, pp 308-312.

Sci Trans Center RF-3247

32,066

Sci - Physics

Organization of the Production of Standard Analyzed Samples for Use in the Spectrochemical Analysis of Ferrous Metals, by M. I. Akland, 3 pp.

RUSSIAN, bimo par, Iz Ak Nauk SSSR, Ser Fiz, Vol V,  
No 2/3, 1941, pp 328-330.

Sci Trans Center NT 3239

Sci - Physics

32,054

The Structure of Alloys and Quantitative  
Spectral Analysis, by V. K. Prokof'ev, 19 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Ser Fiz,  
Vol V, No 2/3, 1941, pp 366-375.

Sci Trans Center RT-3248

Sci - Physics

32,068

Some Results of the Construction of Spectral  
Apparatus, by S. A. Khrshnovskiy, 17 pp.

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Vol V, № 2/3, 1941, pp 376-386.

Sci Trans Center RT-3237

Sci - Physics

32,065

Several New Constructions of Apparatus for  
Spectral Analysis, by L. M. Ivantsov, K. P.  
Krylov, 7 pp.

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Vol V, No 2/3, 1941, pp 387-390.

AEC Tr 3719  
Sci Trans Center RT-3238

32,064

Sci - Physics

Concerning the Preparation of Workers for the  
Spectral Analysis Laboratory, by S. A. Tolkachev,  
2 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Ser Fiz,  
Vol V, No 2/3, 1941, pp 391-392.

Sci Trans Center RT-3235

32,074

Sci - Physics

The Thermo-Electric Effect of Lead Sulphide, by  
E. D. Devyatkova, Yu. P. Maslakovets, M. S. Sominskiy,

RUSSIAN, per, Iz Ak Nauk SSSR, Ser, Fiz, Vol V,  
No 4/5, 1941, pp 409-416.

TPA3/TIB Tr No T 4342

21,829

Scientific - Physics, Electricity Mar 55 CTS

<p>Moldaver, T. I. SELENIUM RECTIFIERS (O Selenovyxh Vypryamitel-yakh). [1963] [25p. (foreign text included) 14 refs. Order from OTS or SLA \$2.60 63-14422</p> <p>Trans. of Akademiya Nauk SSSR, <u>Izvestiya, Seriya Fizicheskaya</u>, 1941 [v. 5] no. 4/5, p. 457-466.</p> <p>DESCRIPTORS: *Dry disk rectifiers, *Rectifiers, *Selenium, Vapors, Condensation, Electrodes, Vacuum apparatus, Cadmium, Manufacturing methods.</p> <p>A method is described for the mass preparation of washers (Rectifier Discs) for solid selenium rectifiers, this method being based on the condensation of selenium vapours in vacuum. The results of using Fe, Ni, Al, Cd, Cu and Zn as a material for preparation of contact electrodes are reported. It is shown that the large resistance in the easy flow direction, which arises if cadmium is made use of for the preparation (Engineering-Electronic, TT, v. 10, no. 4) (over)</p>	<p>63-14422 I. Moldaver, T. I.  Office of Technical Services</p>
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Izvest Akad Nauk, SSSR, Seriya Fizicheskaya  
5, 1941 pp 555-587

Done by AEC

CP-3021 Materials of the conference on the physics

of atomic nuclei of the Div of Physical  
and Math Sci of the Acad of Sci of the USSR  
Moscow, Nov 26, 1940, by I. E. Tamm, L. I.  
Rusinov, I. V. Kurchatov, and G. M. Frank

On the Effect of Refraction in the Troposphere on  
Ultrashort Radiowave Propagation by Diffraction,  
by B. A. Vvedenskiy, 20 pp.

RUSSIAN, bimo par, Iz Ak Nauk, Ser Fiz, Vol VI, No's  
1 / 2, 1942, pp 41-~~4~~ 55.

Morris D. Friedman ✓-117

Scientific - Physics      Jan 56 CTS/DEX  
\$10.00      30,271

Equations of Turbulent Motion of an Incompressible Fluid, by A. N. Kolmogorov,  
RUSSIAN, per. Izv. A. N. SSSR, Ser. Fiz., Vol 6,  
No 1-2, 1942, pp56-58.  
NLL Ref: 5828.4F (M 13459)

Sci/Phys  
Apr 70

406,714

On the Reflection of Radio Impulses from the  
Ionosphere, by V. L. Ginzburg, 15 p.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, 1943,  
Vol VII, No 4, pp 114-133.

SLA 59-20361

Sci  
Feb 60  
Vol 2, No 12

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Some Questions in the Physics of Ionospheric and  
Geomagnetic Disturbances and Related Questions in  
Astrophysics, by M. N. Gnevyshev, 17 pp.

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VII, No 4, 1943, pp 134-144.

ATIC F-TS-9092/v

Sci - Geophysics  
Mar 1957 CTS

45, 069.

Perturbation of Radio Wave Fronts Due to Coastal Effect and Propagation Over Inhomogeneous Ground, by E. L. Feinberg, 12 pp. UNCLASSIFIED

RUSSIAN, per, Iz Ak Nauk SSSR, Ser: Fiz, Vol VII,  
No 5, 1943, pp 167-176.

ATIC F-TS-8141

USSR  
Scientific - ~~RESEARCH~~ Electronics

7384

No. 53 CTS

CIA 2008212

ATIC 126838

On a Method for Solving Problems of  
Electromagnetic Wave Propagation Over  
the Earth's Surface, by M. Leontovich.  
RUSSIAN, per, Izv AN SSSR, Ser Fiz,  
Vol 8, No 1, 1944, pp 16-22.  
Dept of Navy APL/JHU T-2212

Sci-Phys  
May 69

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Currents in the Ionosphere Causing Variations in  
the Earth's Magnetic Field, by I. E. Tamm, 18 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Ser Fiz, Vol VIII,  
No 2, 1944, pp 30-41.

ATIC F-TB-9093/III

Sci - Geophysics  
Mar 1957 CTS

45, 068

Propagation of Radiowaves Along an Actual Surface,  
by E. L. Feinberg, 38 pp. UNCLASSIFIED

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol VIII,  
No 3, 1944, pp 109-131.

ATIC F-TS-8142

USSR  
Scientific - Electronics

CIA 2008213

<sup>MFC 53 CTC</sup>  
ATIC 126840

7385

IAN, Ser 145

VOL 8, # 5, pp 1-5 (174-4)

New Photoelectric Cells with Sb-Cs Cathodes

N. S. Kilebiukov  
A.E. Helman

2400 Microfilm

CIA #513230

5pp - 4 diag  
(Copy in file)

Spivak, G. V. and Repkova, O. N.  
BEHAVIOR OF AN ELECTRON-ION PLASMA IN A  
MAGNETIC FIELD. [1963] [9]p. 9 refs.  
Order from OTS or SLA \$1.10 63-14479

Trans. of Akademiya Nauk SSSR, Izvestiya Seriya  
Fizicheskaya, 1944, v. 8, no. 5, p. 275-279.

DESCRIPTORS: \*Plasma physics, \*Gas discharges,  
\*Magnetic fields, Charged particles, Electrons,  
Energy, Distribution, Magnetic properties, Analysis

63-14479

I. Spivak, G. V.  
II. Repkova, O. N.

(Physics--Electronics, TT, v. 10, no. 2)

Office of Technical Services

Khlebnikov, N.  
PHOTOCATHODES COMPLEXES (Complex Photocathodes). 8p.  
Order from OTS, ETC or CNRS \$0.80 62-28094

Trans. in French of Akademiya Nauk. Izvestiya.  
Seriya Fizicheskaya, 1944, v. 8, no. 5, p. 286-289.

DESCRIPTORS: \*Photoemission, \*Cathodes, Antimony  
alloys, Cesium alloys, Semiconductors, Secondary  
emission, Oxygen, Silver alloys, Theory.

62-28094

I. Khlebnikov, N.  
II. Centre National de la  
Recherche Scientifique  
(France)

(Physics--Solid State, TT, v. 10, no. 7)

Office of Technical Services

Iz Ak Nauk SSSR, Seriya Fiz  
Vol 8, page 346-51 (1944)

Electronic Devices With Effective Emitters of  
Secondary Electrons. by R. M. Aranovich.

AEC Trans (avail. Brookhaven)

The Effect of Strong Electric Fields on Secondary Electron Emission From Thin Dielectric Films, by D. V. Zernov, 9 pp.

RUSSIAN, per, Ex In Ak Akad SSSR, Ser Fiz, Vol VIII, 1944, pp 352-356.

AEC Tr 2555  
SLR RT-457?

Sci - Electrodynamics Physics 40, 429  
Nov 56 CBB

OTS TT-62-28095 (RUSSIAN & FRENCH)

Electronic Devices With Effective Emitters of  
Secondary Electrons, by R. M. Aranovich.

RUSSIAN, per, Bulletin of the Academy of Sciences,  
Physics Series, Vol VIII, 1944.

AEC Tr

Scientific - Electronics

12, 809

L. I. Mandel'shtam and the Theory of Non-Linear  
Vibrations, by A. A. Andronov, 53 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Ser Fiz, Vol IX,  
No 1-2, 1945, pp 30-55.

Sci Trans Center RT-103 ?

SL-A 1073

Scientific - Physics

Jan 54 CRS

8682

Chulanovskii, V. M. and Penkin, N. P.  
INVESTIGATION OF THE POLYMERIZATION OF  
STYRENE BY ABSORPTION SPECTRA IN THE NEAR  
INFRARED REGION. [1961] 6p.  
Order from OTS or SLA \$1.10 61-18355

Trans. of Akademiya Nauk SSSR, Izvestiya, Seriya  
Fizicheskaya, 1945, v. 9, p. 206-210.

DESCRIPTORS: \*Polymerization, \*Styrenes, \*Absorp-  
tion, Chemical reactions, Spectrographic analysis,  
\*Infrared spectroscopy.

A discussion of the suitability of infrared analysis for  
following up reactions such as polymerization of  
styrene and some data intended only to confirm the  
suitability of this method are reported. The thickness  
of the sample is most favorable at which the ratio of  
the amount of light passing through the sample unab-  
(Physics--Spectroscopy, TT, v. 6, no. 10) (over)

61-18355

I. Chulanovskii, V. M.  
II. Penkin, N. P.

187262

Office of Technical Services

Bazhulin, P. A.  
RAMAN SPECTRA OF INDIVIDUAL HYDROCARBONS.  
[1961] 4p. 4 refs.  
Order from OTS or SLA \$1.10

61-18354

Trans. of Akademiya Nauk SSSR, Izvestiya, Seriya  
Fizicheskaya, 1945, v. 9, p. 222-224.

DESCRIPTORS: \*Hydrocarbons, Spectrographic analysis,  
\*Raman spectroscopy, \*Naphthenes.

Raman spectroscopical studies of mixtures of synthesized paraffins and naphthenes are briefly related, on the basis of which some of the most characteristic Raman spectrum lines of several hydrocarbons usually found in the fractions 55°-65° and 85°-90°C have been identified. (Author)

(Physics--Spectroscopy, TT, v. 6, no. 10)

61-18354

I. Bazhulin, P. A.

187261

Office of Technical Services